Bryan E Kolb

List of Publications by Citations

305 papers	20,829 citations	73 h-index	135 g-index
322 ext. papers	22,589 ext. citations	3.8 avg, IF	7 L-index

#	Paper	IF	Citations
305	Structural plasticity associated with exposure to drugs of abuse. *Neuropharmacology*, **2004**, 47 Suppl 1, 33-46	5.5	919
304	Do rats have a prefrontal cortex?. *Behavioural Brain Research*, **2003**, 146, 3-17	3.4	759
303	Functions of the frontal cortex of the rat: a comparative review. *Brain Research Reviews*, **1984**, 320, 65-98		686
302	Harnessing neuroplasticity for clinical applications. *Brain*, **2011**, 134, 1591-609	11.2	685
301	Persistent structural modifications in nucleus accumbens and prefrontal cortex neurons produced by previous experience with amphetamine. *Journal of Neuroscience*, **1997**, 17, 8491-7	6.6	595
300	Alterations in the morphology of dendrites and dendritic spines in the nucleus accumbens and prefrontal cortex following repeated treatment with amphetamine or cocaine. *European Journal of Neuroscience*, **1999**, 11, 1598-604	3.5	560
299	A behavioural analysis of spatial localization following electrolytic, kainate- or colchicine-induced damage to the hippocampal formation in the rat. *Behavioural Brain Research*, **1983**, 7, 133-53	3.4	506
298	A method for vibratome sectioning of Golgi-Cox stained whole rat brain. *Journal of Neuroscience Methods*, **1998**, 79, 1-4	3	500
297	Spatial mapping: definitive disruption by hippocampal or medial frontal cortical damage in the rat. *Neuroscience Letters*, **1982**, 31, 271-6	3.3	460
296	Brain plasticity and behavior. *Annual Review of Psychology*, **1998**, 49, 43-64	26.1	443
295	Contributions of cingulate cortex to two forms of spatial learning and memory. *Journal of Neuroscience*, **1988**, 8, 1863-72	6.6	391
294	A comparison of the contributions of the frontal and parietal association cortex to spatial localization in rats.. *Behavioral Neuroscience*, **1983**, 97, 13-27	2.1	384
293	Cocaine self-administration alters the morphology of dendrites and dendritic spines in the nucleus accumbens and neocortex. *Synapse*, **2001**, 39, 257-66	2.4	352
292	Experience and the developing prefrontal cortex. *Proceedings of the National Academy of Sciences of the United States of America*, **2012**, 109 Suppl 2, 17186-93	11.5	345
291	Age, experience and the changing brain. *Neuroscience and Biobehavioral Reviews*, **1998**, 22, 143-59	9	250
290	Dissociation of the medial prefrontal, posterior parietal, and posterior temporal cortex for spatial navigation and recognition memory in the rat. *Cerebral Cortex*, **1994**, 4, 664-80	5.1	227
289	Neural and behavioral plasticity associated with the transition from controlled to escalated cocaine use. *Biological Psychiatry*, **2005**, 58, 751-9	7.9	221

288	Plasticity in the neocortex: mechanisms underlying recovery from early brain damage. *Progress in Neurobiology*, **1989**, 32, 235-76	10.9	221
287	Morphine alters the structure of neurons in the nucleus accumbens and neocortex of rats. *Synapse*, **1999**, 33, 160-2	2.4	218
286	Inosine induces axonal rewiring and improves behavioral outcome after stroke. *Proceedings of the National Academy of Sciences of the United States of America*, **2002**, 99, 9031-6	11.5	210
285	Growth factor-stimulated generation of new cortical tissue and functional recovery after stroke damage to the motor cortex of rats. *Journal of Cerebral Blood Flow and Metabolism*, **2007**, 27, 983-97	7.3	209
284	Widespread but regionally specific effects of experimenter- versus self-administered morphine on dendritic spines in the nucleus accumbens, hippocampus, and neocortex of adult rats. *Synapse*, **2002**, 46, 271-9	2.4	205
283	Double dissociation of spatial impairments and perseveration following selective prefrontal lesions in rats. *Journal of Comparative and Physiological Psychology*, **1974**, 87, 772-80		201
282	Behavioural and anatomical studies of the posterior parietal cortex in the rat. *Behavioural Brain Research*, **1987**, 23, 127-45	3.4	198
281	Brain plasticity and behaviour in the developing brain. *Journal of the Canadian Academy of Child and Adolescent Psychiatry*, **2011**, 20, 265-76	0.7	194
280	Amphetamine or cocaine limits the ability of later experience to promote structural plasticity in the neocortex and nucleus accumbens. *Proceedings of the National Academy of Sciences of the United States of America*, **2003**, 100, 10523-8	11.5	192
279	Dissociation of the contributions of the prefrontal cortex and dorsomedial thalamic nucleus to spatially guided behavior in the rat. *Behavioural Brain Research*, **1982**, 6, 365-78	3.4	181
278	Environmental enrichment and cortical injury: behavioral and anatomical consequences of frontal cortex lesions. *Cerebral Cortex*, **1991**, 1, 189-98	5.1	171
277	Behavior of the rat after removal of the neocortex and hippocampal formation. *Journal of Comparative and Physiological Psychology*, **1978**, 92, 156-75		151
276	An analysis of feeding and sensorimotor abilities of rats after decortication. *Journal of Comparative and Physiological Psychology*, **1981**, 95, 85-103		148
275	A comparison of different models of stroke on behaviour and brain morphology. *European Journal of Neuroscience*, **2003**, 18, 1950-62	3.5	141
274	Juvenile peer play experience and the development of the orbitofrontal and medial prefrontal cortices. *Behavioural Brain Research*, **2010**, 207, 7-13	3.4	139
273	Opposite effects of amphetamine self-administration experience on dendritic spines in the medial and orbital prefrontal cortex. *Cerebral Cortex*, **2005**, 15, 341-8	5.1	136
272	The location of persistent amphetamine-induced changes in the density of dendritic spines on medium spiny neurons in the nucleus accumbens and caudate-putamen. *Neuropsychopharmacology*, **2003**, 28, 1082-5	8.7	135
271	Experience-associated structural events, subependymal cellular proliferative activity, and functional recovery after injury to the central nervous system. *Journal of Cerebral Blood Flow and Metabolism*, **2000**, 20, 1513-28	7.3	122

270	Sparing of skilled forelimb reaching and corticospinal projections after neonatal motor cortex removal or hemidecortication in the rat: support for the Kennard doctrine. *Brain Research*, **1988**, 451, 97-114	3.7	120
269	The effects of neonatal gonadectomy and prenatal stress on cortical thickness and asymmetry in rats. *Behavioral and Neural Biology*, **1988**, 49, 344-60		120
268	Nicotine sensitization increases dendritic length and spine density in the nucleus accumbens and cingulate cortex. *Brain Research*, **2001**, 899, 94-100	3.7	118
267	Experience-dependent changes in dendritic arbor and spine density in neocortex vary qualitatively with age and sex. *Neurobiology of Learning and Memory*, **2003**, 79, 1-10	3.1	115
266	Sex-related differences in dendritic branching of cells in the prefrontal cortex of rats. *Journal of Neuroendocrinology*, **1991**, 3, 95-9	3.8	115
265	Dendritic plasticity in the adult rat following middle cerebral artery occlusion and Nogo-a neutralization. *Cerebral Cortex*, **2006**, 16, 529-36	5.1	109
264	Embryonic and postnatal injections of bromodeoxyuridine produce age-dependent morphological and behavioral abnormalities. *Journal of Neuroscience*, **1999**, 19, 2337-46	6.6	108
263	Stress during development alters dendritic morphology in the nucleus accumbens and prefrontal cortex. *Neuroscience*, **2012**, 216, 103-9	3.9	101
262	Prefrontal cortex and the regulation of food intake in the rat. *Journal of Comparative and Physiological Psychology*, **1975**, 88, 806-15		101
261	Plasticity and functions of the orbital frontal cortex. *Brain and Cognition*, **2004**, 55, 104-15	2.7	99
260	Recovery from early cortical damage in rats. I. Differential behavioral and anatomical effects of frontal lesions at different ages of neural maturation. *Behavioural Brain Research*, **1987**, 25, 205-20	3.4	99
259	Neonatal Frontal Lesions in the rat: sparing of learned but not species-typical behavior in the presence of reduced brain weight and cortical thickness. *Journal of Comparative and Physiological Psychology*, **1981**, 95, 863-79		99
258	Deficits in allothetic and idiothetic spatial behavior in rats with posterior cingulate cortex lesions. *Behavioural Brain Research*, **2001**, 118, 67-76	3.4	98
257	Nerve growth factor treatment prevents dendritic atrophy and promotes recovery of function after cortical injury. *Neuroscience*, **1997**, 76, 1139-51	3.9	97
256	Dissociation of the contributions of the prefrontal, motor, and parietal cortex to the control of movement in the rat: an experimental review. *Canadian Journal of Psychology*, **1983**, 37, 211-32		97
255	Decortication abolishes place but not cue learning in rats. *Behavioural Brain Research*, **1984**, 11, 123-34	3.4	97
254	Sparing of function in rats with early prefrontal cortex lesions. *Brain Research*, **1978**, 151, 135-48	3.7	95
253	Critical period regulation across multiple timescales. *Proceedings of the National Academy of Sciences of the United States of America*, **2020**, 117, 23242-23251	11.5	94

252	Prenatal stress alters dendritic morphology and synaptic connectivity in the prefrontal cortex and hippocampus of developing offspring. *Synapse*, **2012**, 66, 308-14	2.4	94
251	The netrin receptor DCC is required in the pubertal organization of mesocortical dopamine circuitry. *Journal of Neuroscience*, **2011**, 31, 8381-94	6.6	88
250	Recovery from early cortical damage in rats. IV. Effects of hemidecortication at 1, 5 or 10 days of age on cerebral anatomy and behavior. *Behavioural Brain Research*, **1988**, 28, 259-74	3.4	88
249	Amphetamine-induced changes in dendritic morphology in rat forebrain correspond to associative drug conditioning rather than nonassociative drug sensitization. *Biological Psychiatry*, **2009**, 65, 835-40	7.9	87
248	Contrasting effects of motor and visual spatial learning tasks on dendritic arborization and spine density in rats. *Neurobiology of Learning and Memory*, **2008**, 90, 295-300	3.1	86
247	Brain Plasticity and Behavior. *Current Directions in Psychological Science*, **2003**, 12, 1-5	6.5	84
246	Neural correlates of species-typical behavior in the Syrian golden hamster.. *Journal of Comparative and Physiological Psychology*, **1977**, 91, 1056-1073		84
245	Sex-specific radiation-induced microRNAome responses in the hippocampus, cerebellum and frontal cortex in a mouse model. *Mutation Research - Genetic Toxicology and Environmental Mutagenesis*, **2011**, 722, 114-8	3	83
244	The effects of orbital frontal cortex damage on the modulation of defensive responses by rats in playful and nonplayful social contexts. *Behavioral Neuroscience*, **2006**, 120, 72-84	2.1	82
243	Evidence for bilateral control of skilled movements: ipsilateral skilled forelimb reaching deficits and functional recovery in rats follow motor cortex and lateral frontal cortex lesions. *European Journal of Neuroscience*, **2004**, 20, 3442-52	3.5	82
242	Environmental complexity has different effects on the structure of neurons in the prefrontal cortex versus the parietal cortex or nucleus accumbens. *Synapse*, **2003**, 48, 149-53	2.4	82
241	Accelerated nervous system development contributes to behavioral efficiency in the laboratory mouse: a behavioral review and theoretical proposal. *Developmental Psychobiology*, **2001**, 39, 151-70	3	82
240	Earlier is not always better: behavioral dysfunction and abnormal cerebral morphogenesis following neonatal cortical lesions in the rat. *Behavioural Brain Research*, **1985**, 17, 25-43	3.4	81
239	Animal models for human PFC-related disorders. *Progress in Brain Research*, **1990**, 85, 501-19	2.9	80
238	Searching for the principles of brain plasticity and behavior. *Cortex*, **2014**, 58, 251-60	3.8	79
237	Brain plasticity and recovery from early cortical injury. *Developmental Psychobiology*, **2007**, 49, 107-18	3	79
236	Aphagia, behavior sequencing and body weight set point following orbital frontal lesions in rats. *Physiology and Behavior*, **1977**, 19, 93-103	3.5	79
235	Intensity matters: brain, behaviour and the epigenome of prenatally stressed rats. *Neuroscience*, **2011**, 180, 105-10	3.9	77

234	Maternal separation altered behavior and neuronal spine density without influencing amphetamine sensitization. *Behavioural Brain Research*, **2011**, 223, 7-16	3.4	74
233	Blockade of basic fibroblast growth factor retards recovery from motor cortex injury in rats. *European Journal of Neuroscience*, **1997**, 9, 2432-41	3.5	74
232	Neonatal frontal cortical lesions in rats alter cortical structure and connectivity. *Brain Research*, **1994**, 645, 85-97	3.7	73
231	Cortical plasticity and the development of behavior after early frontal cortical injury. *Developmental Neuropsychology*, **2000**, 18, 423-44	1.8	72
230	Recovery from early cortical damage in rats. II. Effects of experience on anatomy and behavior following frontal lesions at 1 or 5 days of age. *Behavioural Brain Research*, **1987**, 26, 47-56	3.4	72
229	The problem of relating plasticity and skilled reaching after motor cortex stroke in the rat. *Behavioural Brain Research*, **2008**, 192, 124-36	3.4	70
228	The role of the medial prefrontal cortex in the play fighting of rats. *Behavioral Neuroscience*, **2009**, 123, 1158-68	2.1	69
227	Chronic treatment with Delta-9-tetrahydrocannabinol alters the structure of neurons in the nucleus accumbens shell and medial prefrontal cortex of rats. *Synapse*, **2006**, 60, 429-36	2.4	68
226	Possible anatomical basis of recovery of function after neonatal frontal lesions in rats.. *Behavioral Neuroscience*, **1993**, 107, 799-811	2.1	68
225	Possible regeneration of rat medial frontal cortex following neonatal frontal lesions. *Behavioural Brain Research*, **1998**, 91, 127-41	3.4	67
224	Recovery from early cortical damage in rats, VII. Comparison of the behavioural and anatomical effects of medial prefrontal lesions at different ages of neural maturation. *Behavioural Brain Research*, **1996**, 79, 1-14	3.4	67
223	Improved mood and behavior during treatment with a mineral-vitamin supplement: an open-label case series of children. *Journal of Child and Adolescent Psychopharmacology*, **2004**, 14, 115-22	2.9	66
222	Recovery from early cortical lesions in rats. III. Neonatal removal of posterior parietal cortex has greater behavioral and anatomical effects than similar removals in adulthood. *Behavioural Brain Research*, **1987**, 26, 119-37	3.4	66
221	Prefrontal lesions alter eating and hoarding behavior in rats. *Physiology and Behavior*, **1974**, 12, 507-11	3.5	66
220	Social behavior of rats with chronic prefrontal lesions. *Journal of Comparative and Physiological Psychology*, **1974**, 87, 466-74		66
219	Dissociation of the effects of lesions of the orbital or medial aspect of the prefrontal cortex of the rat with respect to activity. *Behavioral Biology*, **1974**, 10, 329-43		65
218	dcc orchestrates the development of the prefrontal cortex during adolescence and is altered in psychiatric patients. *Translational Psychiatry*, **2013**, 3, e338	8.6	64
217	Cortical noradrenaline depletion eliminates sparing of spatial learning after neonatal frontal cortex damage in the rat. *Neuroscience Letters*, **1982**, 32, 125-30	3.3	63

216	Functional development of prefrontal cortex in rats continues into adolescence. *Science*, **1976**, 193, 335-6	33.3	63
215	Sex-related differences in cortical function after medial frontal lesions in rats.. *Behavioral Neuroscience*, **1996**, 110, 1271-1281	2.1	62
214	Dendritic branching in cortical pyramidal cells in response to ovariectomy in adult female rats: suppression by neonatal exposure to testosterone. *Brain Research*, **1994**, 654, 149-54	3.7	62
213	Selective brain responses to acute and chronic low-dose X-ray irradiation in males and females. *Biochemical and Biophysical Research Communications*, **2004**, 325, 1223-35	3.4	61
212	Sparing of function after neonatal frontal lesions correlates with increased cortical dendritic branching: a possible mechanism for the Kennard effect. *Behavioural Brain Research*, **1991**, 43, 51-6	3.4	60
211	Hitting a moving target: Basic mechanisms of recovery from acquired developmental brain injury. *Developmental Neurorehabilitation*, **2009**, 12, 255-68	1.8	57
210	Age, experience, injury, and the changing brain. *Developmental Psychobiology*, **2012**, 54, 311-25	3	56
209	Brain plasticity in the developing brain. *Progress in Brain Research*, **2013**, 207, 35-64	2.9	56
208	Prenatal stress produces sexually dimorphic and regionally specific changes in gene expression in hippocampus and frontal cortex of developing rat offspring. *Developmental Neuroscience*, **2011**, 33, 531-8	2.2	56
207	Changes in the neonatal gonadal hormonal environment prevent behavioral sparing and alter cortical morphogenesis after early frontal cortex lesions in male and female rats.. *Behavioral Neuroscience*, **1995**, 109, 285-294	2.1	56
206	Are 50-kHz calls used as play signals in the playful interactions of rats? I. Evidence from the timing and context of their use. *Behavioural Processes*, **2014**, 106, 60-6	1.6	55
205	Mild prenatal stress-modulated behavior and neuronal spine density without affecting amphetamine sensitization. *Developmental Neuroscience*, **2011**, 33, 85-98	2.2	55
204	Principles of plasticity in the developing brain. *Developmental Medicine and Child Neurology*, **2017**, 59, 1218-1223	3.3	54
203	Sex-specific microRNAome deregulation in the shielded bystander spleen of cranially exposed mice. *Cell Cycle*, **2008**, 7, 1658-67	4.7	54
202	Neural compensations after lesion of the cerebral cortex. *Neural Plasticity*, **2001**, 8, 1-16	3.3	54
201	Decortication of rats in infancy or adulthood produced comparable functional losses on learned and species-typical behaviors. *Journal of Comparative and Physiological Psychology*, **1981**, 95, 468-83		54
200	Netrin-1 receptor-deficient mice show enhanced mesocortical dopamine transmission and blunted behavioural responses to amphetamine. *European Journal of Neuroscience*, **2007**, 26, 3215-28	3.5	52
199	DCC Receptors Drive Prefrontal Cortex Maturation by Determining Dopamine Axon Targeting in Adolescence. *Biological Psychiatry*, **2018**, 83, 181-192	7.9	51

198	Differential effects of nicotine and complex housing on subsequent experience-dependent structural plasticity in the nucleus accumbens. *Behavioral Neuroscience*, **2005**, 119, 355-65	2.1	51
197	Synaptic plasticity and the organization of behaviour after early and late brain injury. *Canadian Journal of Experimental Psychology*, **1999**, 53, 62-76	0.8	51
196	Cortical and striatal structure and connectivity are altered by neonatal hemidecortication in rats. *Journal of Comparative Neurology*, **1992**, 322, 311-24	3.4	51
195	Immunosuppression prevents neuronal atrophy in lupus-prone mice: evidence for brain damage induced by autoimmune disease?. *Journal of Neuroimmunology*, **2000**, 111, 93-101	3.5	49
194	Can a therapeutic dose of amphetamine during pre-adolescence modify the pattern of synaptic organization in the brain?. *European Journal of Neuroscience*, **2003**, 18, 3394-9	3.5	48
193	Noradrenaline depletion blocks behavioral sparing and alters cortical morphogenesis after neonatal frontal cortex damage in rats. *Journal of Neuroscience*, **1992**, 12, 2321-30	6.6	48
192	Postsurgical enrichment aids adult hemidecorticate rats on a spatial navigation task. *Behavioral and Neural Biology*, **1984**, 42, 183-90		48
191	Factors influencing cerebral plasticity in the normal and injured brain. *Frontiers in Human Neuroscience*, **2010**, 4, 204	3.3	47
190	Is there an optimal age for recovery from motor cortex lesions? I. Behavioral and anatomical sequelae of bilateral motor cortex lesions in rats on postnatal days 1, 10, and in adulthood. *Brain Research*, **2000**, 882, 62-74	3.7	47
189	Effects of rat prenatal exposure to valproic acid on behaviour and neuro-anatomy. *Developmental Neuroscience*, **2012**, 34, 268-76	2.2	46
188	Environmental constraints on motor abilities used in grooming, swimming, and eating by decorticate rats. *Journal of Comparative and Physiological Psychology*, **1981**, 95, 792-804		45
187	Learning-induced alterations in prefrontal cortical dendritic morphology. *Behavioural Brain Research*, **2010**, 214, 91-101	3.4	44
186	Neonatal motor cortex lesions in the rat: Absence of sparing of motor behaviors and impaired spatial learning concurrent with abnormal cerebral morphogenesis.. *Behavioral Neuroscience*, **1983**, 97, 697-709	2.1	44
185	Plasticity in the prefrontal cortex of adult rats. *Frontiers in Cellular Neuroscience*, **2015**, 9, 15	6.1	43
184	FGF-2-induced cell proliferation stimulates anatomical, neurophysiological and functional recovery from neonatal motor cortex injury. *European Journal of Neuroscience*, **2006**, 24, 739-49	3.5	43
183	Role of the neocortex in the water maze task in the rat: a detailed behavioral and Golgi-Cox analysis. *Behavioural Brain Research*, **2003**, 138, 81-94	3.4	43
182	Tactile stimulation after frontal or parietal cortical injury in infant rats facilitates functional recovery and produces synaptic changes in adjacent cortex. *Behavioural Brain Research*, **2010**, 214, 115-20	3.4	42
181	Ventrolateral prefrontal cortex lesions in rats impair the acquisition and retention of a tactile-olfactory configural task.. *Behavioral Neuroscience*, **1992**, 106, 597-603	2.1	42

180	Can male decorticate rats copulate?. *Behavioral Neuroscience*, **1983**, 97, 270-279	2.1	42
179	Tactile stimulation during development alters behaviour and neuroanatomical organization of normal rats. *Behavioural Brain Research*, **2012**, 231, 86-91	3.4	41
178	Prenatal nicotine exposure alters neuroanatomical organization of the developing brain. *Synapse*, **2012**, 66, 950-4	2.4	41
177	Early exposure to haloperidol or olanzapine induces long-term alterations of dendritic form. *Synapse*, **2010**, 64, 191-9	2.4	41
176	Age-related hearing loss and tinnitus, dementia risk, and auditory amplification outcomes. *Ageing Research Reviews*, **2019**, 56, 100963	12	40
175	Olanzapine treatment of adolescent rats causes enduring specific memory impairments and alters cortical development and function. *PLoS ONE*, **2013**, 8, e57308	3.7	40
174	Recovery of function is associated with increased spine density in cortical pyramidal cells after frontal lesions and/or noradrenaline depletion in neonatal rats. *Behavioural Brain Research*, **1997**, 89, 61-70	3.4	40
173	Chronic low-dose administration of nicotine facilitates recovery and synaptic change after focal ischemia in rats. *Neuropharmacology*, **2006**, 50, 777-87	5.5	40
172	Chronic traffic noise stress accelerates brain impairment and cognitive decline in mice. *Experimental Neurology*, **2018**, 308, 1-12	5.7	40
171	Juvenile play experience primes neurons in the medial prefrontal cortex to be more responsive to later experiences. *Neuroscience Letters*, **2013**, 556, 42-5	3.3	39
170	Harnessing the power of neuroplasticity for intervention. *Frontiers in Human Neuroscience*, **2014**, 8, 377	3.3	39
169	Effects of neonatal forebrain noradrenaline depletion on recovery from brain damage: performance on a spatial navigation task as a function of age of surgery and postsurgical housing. *Behavioral and Neural Biology*, **1986**, 46, 285-307		39
168	Long-term alterations to dendritic morphology and spine density associated with prenatal exposure to nicotine. *Brain Research*, **2013**, 1499, 53-60	3.7	38
167	Prenatal noise stress impairs HPA axis and cognitive performance in mice. *Scientific Reports*, **2017**, 7, 10560	4.9	38
166	Functional consequences of transplantation of frontal neocortex vary with age of donor tissue and behavioral task. *Restorative Neurology and Neuroscience*, **1993**, 5, 141-9	2.8	38
165	Nerve growth factor stimulates growth of cortical pyramidal neurons in young adult rats. *Brain Research*, **1997**, 751, 289-94	3.7	37
164	Basic fibroblast growth factor stimulates functional recovery after neonatal lesions of motor cortex in rats. *Neuroscience*, **2005**, 134, 1-8	3.9	37
163	Abnormalities in cortical and subcortical morphology after neonatal neocortical lesions in rats. *Experimental Neurology*, **1983**, 79, 223-44	5.7	37

162	Neonatal frontal lesions in hamsters impair species-typical behaviors and reduce brain weight and neocortical thickness.. *Behavioral Neuroscience*, **1985**, 99, 691-706	2.1	37
161	Persistent gene expression changes in NAc, mPFC, and OFC associated with previous nicotine or amphetamine exposure. *Behavioural Brain Research*, **2013**, 256, 655-61	3.4	36
160	Induction and persistence of radiation-induced DNA damage is more pronounced in young animals than in old animals. *Aging*, **2011**, 3, 609-20	5.6	36
159	Brain plasticity and recovery from early cortical injury. *Developmental Medicine and Child Neurology*, **2011**, 53 Suppl 4, 4-8	3.3	36
158	Motor inhibitory role of dopamine D1 receptors: implications for ADHD. *Physiology and Behavior*, **2007**, 92, 155-60	3.5	34
157	Prenatal bystander stress induces neuroanatomical changes in the prefrontal cortex and hippocampus of developing rat offspring. *Brain Research*, **2011**, 1412, 55-62	3.7	33
156	Tactile stimulation promotes motor recovery following cortical injury in adult rats. *Behavioural Brain Research*, **2010**, 214, 102-7	3.4	33
155	Anatomical correlates of behavioural change after neonatal prefrontal lesions in rats. *Progress in Brain Research*, **1990**, 85, 241-55; discussion 255-6	2.9	33
154	Chronic stress induces persistent changes in global DNA methylation and gene expression in the medial prefrontal cortex, orbitofrontal cortex, and hippocampus. *Neuroscience*, **2016**, 322, 489-99	3.9	31
153	Prenatal bystander stress alters brain, behavior, and the epigenome of developing rat offspring. *Developmental Neuroscience*, **2011**, 33, 159-69	2.2	31
152	Morphology of layer III pyramidal neurons is altered following induction of LTP in sensorimotor cortex of the freely moving rat. *Synapse*, **2000**, 37, 16-22	2.4	31
151	Searching for a technology of behavior. *Behavioral and Brain Sciences*, **1987**, 10, 220-221	0.9	31
150	Some tests of response habituation in rats with discrete lesions to the orbital or medial frontal cortex. *Canadian Journal of Psychology*, **1974**, 28, 260-7		31
149	Noise exposure accelerates the risk of cognitive impairment and Alzheimer's disease: Adulthood, gestational, and prenatal mechanistic evidence from animal studies. *Neuroscience and Biobehavioral Reviews*, **2020**, 117, 110-128	9	31
148	Cerebral morphology and functional sparing after prenatal frontal cortex lesions in rats. *Behavioural Brain Research*, **1998**, 91, 143-55	3.4	30
147	Cryostat sectioning of Golgi-Cox tissue. *Biotechnic & Histochemistry*, **1986**, 61, 379-80		30
146	Assessment of a nutritional supplement containing resveratrol, prebiotic fiber, and omega-3 fatty acids for the prevention and treatment of mild traumatic brain injury in rats. *Neuroscience*, **2017**, 365, 146-157	3.9	29
145	Overview of cortical plasticity and recovery from brain injury. *Physical Medicine and Rehabilitation Clinics of North America*, **2003**, 14, S7-25, viii	2.3	29

144	A Golgi study of neuronal architecture in a genetic mouse model for Lesch-Nyhan disease. *Neurobiology of Disease*, **2005**, 20, 479-90	7.5	29
143	Nicotine stimulates dendritic arborization in motor cortex and improves concurrent motor skill but impairs subsequent motor learning. *Synapse*, **2005**, 55, 183-91	2.4	29
142	Nicotine improves Morris water task performance in rats given medial frontal cortex lesions. *Pharmacology Biochemistry and Behavior*, **2000**, 67, 473-8	3.9	29
141	The development of lasting impairments: a mild pediatric brain injury alters gene expression, dendritic morphology, and synaptic connectivity in the prefrontal cortex of rats. *Neuroscience*, **2015** , 288, 145-55	3.9	28
140	Impulsivity and Concussion in Juvenile Rats: Examining Molecular and Structural Aspects of the Frontostriatal Pathway. *PLoS ONE*, **2015**, 10, e0139842	3.7	28
139	Tactile stimulation during development attenuates amphetamine sensitization and structurally reorganizes prefrontal cortex and striatum in a sex-dependent manner. *Behavioral Neuroscience*, **2011**, 125, 161-74	2.1	28
138	Pre- and postnatal FGF-2 both facilitate recovery and alter cortical morphology following early medial prefrontal cortical injury. *Behavioural Brain Research*, **2007**, 180, 18-27	3.4	28
137	Effects of prenatal exposure to valproic acid on the development of juvenile-typical social play in rats. *Behavioural Pharmacology*, **2015**, 26, 707-19	2.4	26
136	Olanzapine treatment of adolescent rats alters adult reward behaviour and nucleus accumbens function. *International Journal of Neuropsychopharmacology*, **2013**, 16, 1599-609	5.8	26
135	Searching for factors underlying cerebral plasticity in the normal and injured brain. *Journal of Communication Disorders*, **2011**, 44, 503-14	1.9	26
134	Neocortical kindling is associated with opposing alterations in dendritic morphology in neocortical layer V and striatum from neocortical layer III. *Synapse*, **2006**, 59, 1-9	2.4	26
133	Recovery from early cortical damage in rats, VIII. Earlier may be worse: behavioural dysfunction and abnormal cerebral morphogenesis following perinatal frontal cortical lesions in the rat. *Neuropharmacology*, **2000**, 39, 756-64	5.5	26
132	Unilateral lesions of the forelimb area of rat motor cortex: lack of evidence for use-dependent neural growth in the undamaged hemisphere. *Brain Research*, **1996**, 710, 249-59	3.7	26
131	Neonatal testosterone augmentation increases juvenile play fighting but does not influence the adult dominance relationships of male rats. *Aggressive Behavior*, **1992**, 18, 437-447	2.8	26
130	Chronic phencyclidine treatment increases dendritic spine density in prefrontal cortex and nucleus accumbens neurons. *Synapse*, **2007**, 61, 978-84	2.4	25
129	Preconception paternal stress in rats alters dendritic morphology and connectivity in the brain of developing male and female offspring. *Neuroscience*, **2015**, 303, 200-10	3.9	24
128	Ancestral Exposure to Stress Generates New Behavioral Traits and a Functional Hemispheric Dominance Shift. *Cerebral Cortex*, **2017**, 27, 2126-2138	5.1	24
127	Recovery from occipital stroke: a self-report and an inquiry into visual processes. *Canadian Journal of Psychology*, **1990**, 44, 130-47		24

126	Brain development, experience, and behavior. *Pediatric Blood and Cancer*, **2014**, 61, 1720-3	3	23
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